



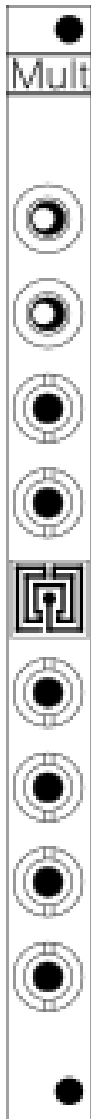
LARIX ELEKTRO

CONTROLE MULTIPLE

(2 Switches version)

WHAT'S THAT THING ?

This is a configurable multiple and switches module, or extension for other LE modules.



JACKS :
6 I/O.

SWITCHES :
2

Technical specifications:

+12V : 0mA
-12V : 0mA
5V : 0mA
2HP, 25mm deep (Approx.) with the jumpers

Installation:

It is better to have a **well-insulated box** because parasites can be added to the signal of the modules. If you are not familiar with electronics, prefer commercial boxes. This is especially true for power supplies: a poorly designed power supply can damage the modules.

To avoid various problems, electromagnetic, but not only, **complete the empty spaces with blind front panels** (Blank panels).

For more informations about how to configure the module, and using it as an extension, see below.

Configuration:

**This module is similar to the MULTIPLE module.
But two jacks are replaced by two switches.**

On the back :

For each switch :

3 pin to have access to the 3 connectors of the switch.

For each jack:

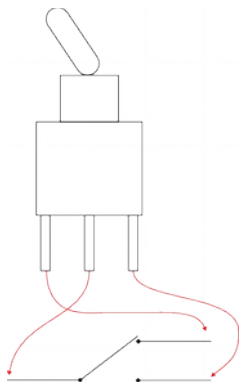
Access to the tip of the connected jack cable.

Access to the Normaled pin.

With the jumper, it's possible to select which one are connected to the internal bus, to connect multiple jacks together.

By default, the module is configured as a 1 to 5 mult.

It means that the jumper of each jack is connected between « **TIP I/O** » and « **BUS** ».



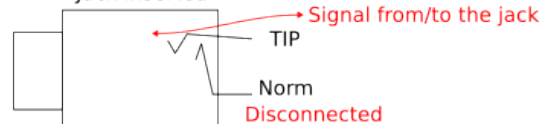
Switch explanation ; order of the pin.

« Norm » explanation :

No Jack inserted



Jack inserted



Using as an extension module:

The **MULTIPLE 2** module can be used to add more input/outputs for some modules. And to add switches, of course. Like the **AUDIO DUAL UNDULA OSCILLATOR**.

The module you want to expand must have some similar pinheaders on the back. Or at least some holes to solder this kind of connector.

Refer to the user manual to see what are the extension possibilities.

For each optional input/output available, you can connect one Jack from the **MULTIPLE** module. The same idea applies to the switches.

For example, the two output VCA of the **DUAL UNDULA OSCILLATOR** have two settings : Unipolar or bipolar. A jumper is available to select the setting.

It's possible to connect to the 3pins connector to the 3pins of the switch connector, in the same order. So now, You can choose the configuration of the VCA from the front panel.

To connect the two modules together, you will need one cable per jack you want to connect. You can solder them, or using **Dupont cable**.

Connect the cable to the **TIP I/O** pin from the jack you want to use. Or, in the case of the switches, the 3 pins of hte switches.

Using as outing module:

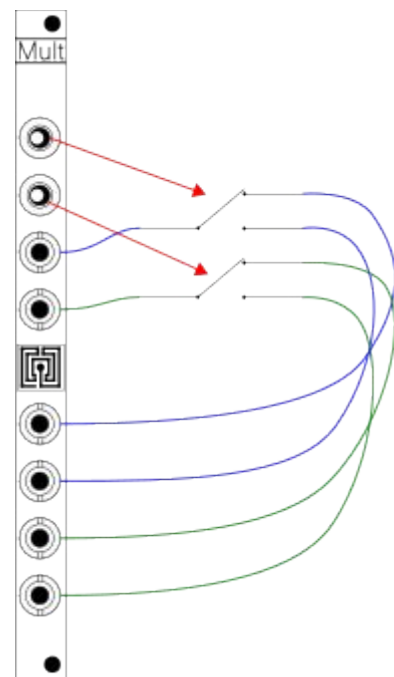
The **MULTIPLE 2** has two switches, and 6 jacks...

Yes ! It's possible to build a dual 2 to 1 (or reverse) selector.

Remove all the jumpers.

With dupont cable (or solder the cables) connect one jack (the « TIP » pin), per pin of the switches. So ou need 3 jacks.

I recommend this setting, see the schematic here :



Technical notes, and for DIYers:

You can do more complexe connexion with the « Norm » pin. For example, if you want that some parameter receive the same signal until a jack is inserted on it.

The module can be used by DIYers, that want some I/O jack to their experimental module, but : **Larix-Elektro** cannot be held responsible if a module is damaged after being connected incorrectly, or in case you want to use this module to add I/O to a module that does not have this capability. Check the manual of your module. And do modification at your own risk ! (OK, let's say you have to know what you're doing...)

**Do not connect to any PSU connector !
(even if it looks cool to have the +12V available on the from panel, it's not a good idea...)**

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